PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 152712.6 IL	FOR FURTHER ACTION	See item 4 below	
International application No PCT/IL2004/000599	International filing date (day/month/year) 06 July 2004 (06.07.2004)	Priority date (day/month/year) 07 July 2003 (07.07.2003)	
International Patent Classification (8t See relevant information in Form F	h edition unless older edition indicated)	(07.07.2003)	
Applicant GRAN COMPUTER INDUSTRIES			

1	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis 1(a)			
2	This REPORT consists of a total of 8 sheets, including this cover sheet. In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.			
3	I his report contains indications relating to the following items:			
	Box No I Basis of the report			
	Box No. II	Priority		
	Box No III	Non-establishment of opinion with regard to novelty inventive step and industrial applicability		
	Box No. IV	Lack of unity of invention		
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
	Box No VI	Certain documents cited		
	Box No. VII	Certain defects in the international application		
	Box No. VIII	Certain observations on the international application		
4.	The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis 3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis 2).			

	Date of issuance of this report 09 January 2006 (09.01.2006)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Simin Baharlou
Facsimile No. +41 22 740 14 35	Telephone No +41 22 338 71 30
Form PCT/IB/373 (January 2004)	

BEST AVAILABLE COPY

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUT	HORITY		REC'D 26 OCT 2004	
То:			PCT PCT	
see form PCT/ISA/220		INTERNATIO	TEN OPINION OF THE NAL SEARCHING AUTHORITY PCT Rule 43 <i>bis.</i> 1)	
		Date of mailing (day/month/year) se	e form PCT/ISA/210 (second sheet)	
Applicant's or agent's file reference see form PCT/ISA/220		FOR FURTHER A	ACTION	
International application No PCT/IL2004/000599	International filing date 06.07.2004	·	Priority date (day/month/year) 07 07 2003	
International Patent Classification (IPC) or G01N21/87, G01N33/38	both national classification	and IPC	1	
Applicant GRAN COMPUTER INDUSTRIES	S LTD.			
1. This opinion contains indications relating to the following items: Box No Basis of the opinion				
For further options, see Form PCT	whichever expires later For further options, see Form PCT/ISA/220 For further details, see notes to Form PCT/ISA/220			
lame and mailing address of the ISA:		Authorized Officer	Ages Peterya	

European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465

Croucher, J

Telephone No +49 89 2399-2704



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No PCT/IL2004/000599

Воз	No. I Basis of the opinion
	n regard to the language, this opinion has been established on the basis of the international application in language in which it was field, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12 3 and 23.1(b)).
2 With nece	regard to any nucleotide and/or amino acid sequence disclosed in the international application and essary to the claimed invention, this opinion has been established on the basis of:
a. ty	pe of material:
	a sequence listing
	table(s) related to the sequence listing
b for	mat of material:
	in written format
	in computer readable form
c. time	e of filing/furnishing:
	contained in the international application as filed.
	filed together with the international application in computer readable form
	furnished subsequently to this Authority for the purposes of search
3. 🔲 In ha co ap	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto s been filed or furnished, the required statements that the information in the subsequent or additional propriate, were furnished.
	nal comments:

BEST AVAILABLE COPY

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

see separate sheet

International application No. PCT/IL2004/000599

_	Box No. II	Priority			
1	↑ I Mark The following document has not been furnished:				
		copy of the earlier	applicatio	n whose pi	riority has been claimed (Rule 43bis.1 and 66.7(a)).
		translation of the ea	arlier app	lication who	ose priority has been claimed (Rule 43bis 1 and 66.7(b)).
	Conser neverth	quently it has not be neless been establis	en possil hed on th	ole to consi ne assumpt	der the validity of the priority claim. This opinion has ion that the relevant date is the claimed priority date.
2	This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43bis 1 and 64 1) Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date				
3.	3. Additional observations, if necessary:				
		•			
	Box No. V industrial a	Reasoned statem pplicability; citation	nent und	ler Rule 43 explanation	bis.1(a)(i) with regard to novelty, inventive step or ns supporting such statement
1	Statement				
	Novelty (N)		Yes: No:	Claims Claims	1-20, 23-29 21,22
	Inventive ste	ep (IS)	Yes:	Claims	1-20
			No:	Claims	21-29
	Industrial ap	plicability (IA)	Yes:	Claims	1-29
			No:	Claims	•
2	Citations and	d explanations			

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1 Prior art

- 1.1 Reference is made to the following documents:
 - D1 SCHMIDT, W. Optische Spektroskopie. Weinheim: Wiley, 2000, ISBN 3-527-29828-2, pages 123-131.
 - D2 GOLLON, P. and LEDERER, U. Diamond valuation: The Cutting Edge. Professional Jeweler Magazine Archives [online]. June 2003 [retrieved on 06-10-2004]. Retrieved from the Internet: http://www.professionaljeweler.com/archives/articles/2003/jun03/0603 man2.html>.
 - D3 GOLLON, P. and LEDERER, U. Diamond Evaluation: A Changed World. Professional Jeweler Magazine Archives [online]. June 2003 [retrieved on 06-10-2004]. Retrieved from the Internet: http://www.professionaljeweler.com/archives/articles/2003/may03/0503 man4.html>.

Novelty - Article 33(2) PCT

- 2.1 The present application does not meet the requirements of Article 33(2) PCT, because the subject-matter of Claims 21 and 22 is not new in the sense of Article 33(2) PCT.
- 2.2 Document D1 discloses the method of Claim 21, in that the Bouger-Lambert-Beer law is an empirical equation relating the absorption of light to the properties of the material the light is travelling though. From this law it is known that radiation is absorbed to an extent that depends on the wavelength of the radiation and the thickness and nature of the medium.
- 2.3 Claims 21 and 22, which merely rephrase the Bouger-Lambert-Beer law, are therefore not novel.
- 3 Inventive step Article 33(3) PCT

- 3.1 The present application does not meet the requirements of Article 33(3) PCT, because the subject-matter of Claims 23-29 are not inventive.
- 3.2 The subject-matter of Claims 23, 24 and 27-29 differs from D1 in that the geometry is measured by using a computer-controlled gemstone-mapping device. Such a device is known, however, from D2, and for the skilled person faced with the problem of measuring the geometry of a gemstone in order to find absorption coefficient, it would be obvious to try using a gemstone-mapping device.
- 3.3 The solution proposed in Claims 23, 24 and 27-29 of the present application cannot therefore be considered as involving an inventive step.
- 3.4 Similarly, the subject-matter of Claims 25-29 differs from D1 in that the gemstone colour is measured by using a computer-controlled colorimeter. Such a device is known, however, from D2, and for the skilled person faced with the problem of measuring the colour of a gemstone in order to find absorption coefficient, it would be obvious to try using a colorimeter.
- 3.5 The solution proposed in Claims 25-29 of the present application cannot therefore be considered as involving an inventive step.

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1 Prior art
- 1.1 Reference is made to the following documents:
 - D1 SCHMIDT, W. Optische Spektroskopie. Weinheim: Wiley, 2000, ISBN 3-527-29828-2, pages 123-131.
 - D2 GOLLON, P. and LEDERER, U. Diamond valuation: The Cutting Edge. Professional Jeweler Magazine Archives [online]. June 2003 [retrieved on 06-10-2004] Retrieved from the Internet: http://www.professionaljeweler.com/archives/articles/2003/jun03/0603 man2.html>.
 - D3 GOLLON, P. and LEDERER, U. Diamond Evaluation: A Changed World. Professional Jeweler Magazine Archives [online]. June 2003 [retrieved on 06-10-2004]. Retrieved from the Internet: http://www.professionaljeweler.com/archives/articles/2003/may03/0503 man4.html>.
- Novelty Article 33(2) PCT
- 2.1 The present application does not meet the requirements of Article 33(2) PCT, because the subject-matter of Claims 21 and 22 is not new in the sense of Article 33(2) PCT.
- 2.2 Document D1 discloses the method of Claim 21, in that the Bouger-Lambert-Beer law is an empirical equation relating the absorption of light to the properties of the material the light is travelling though. From this law it is known that radiation is absorbed to an extent that depends on the wavelength of the radiation and the thickness and nature of the medium.
- 2.3 Claims 21 and 22, which merely rephrase the Bouger-Lambert-Beer law, are therefore not novel.
- 3 Inventive step Article 33(3) PCT

- 3.1 The present application does not meet the requirements of Article 33(3) PCT, because the subject-matter of Claims 23-29 are not inventive.
- 3.2 The subject-matter of Claims 23, 24 and 27-29 differs from D1 in that the geometry is measured by using a computer-controlled gemstone-mapping device. Such a device is known, however, from D2, and for the skilled person faced with the problem of measuring the geometry of a gemstone in order to find absorption coefficient, it would be obvious to try using a gemstone-mapping device.
- 3.3 The solution proposed in Claims 23, 24 and 27-29 of the present application cannot therefore be considered as involving an inventive step.
- 3.4 Similarly, the subject-matter of Claims 25-29 differs from D1 in that the gemstone colour is measured by using a computer-controlled colorimeter. Such a device is known, however, from D2, and for the skilled person faced with the problem of measuring the colour of a gemstone in order to find absorption coefficient, it would be obvious to try using a colorimeter.
- 3.5 The solution proposed in Claims 25-29 of the present application cannot therefore be considered as involving an inventive step.

BES! AVAILABLE COPY